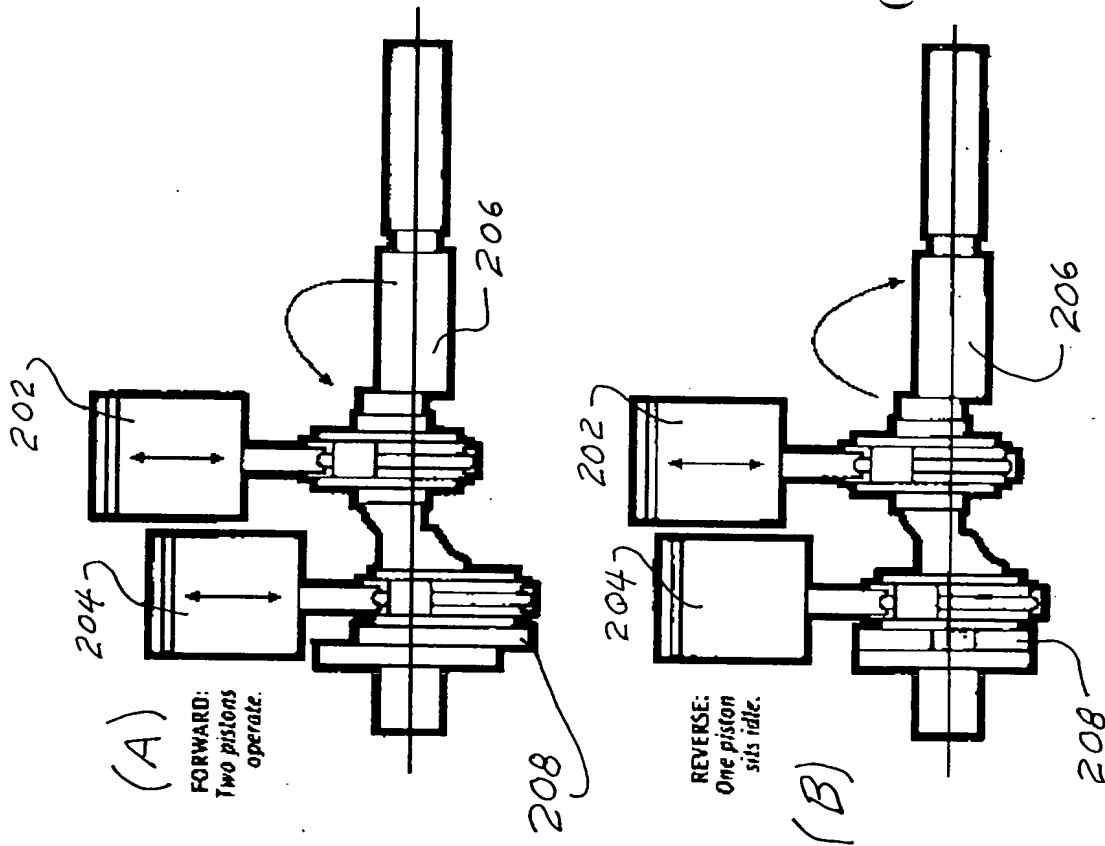


HEAT PUMP WITH BOOSTER COMPRESSOR
(HEATING FLOW PATH SHOWN)

FIGURE 1



(A) Both pistons operate when the compressor runs forward.

(B) Reverse the motor, and just one piston operates, as the crankshaft lobe repositions itself on the center axis of the shaft.

FIGURE 3

COMPRESSION MODULE FOR BOOSTED AIR SOURCE HEATING

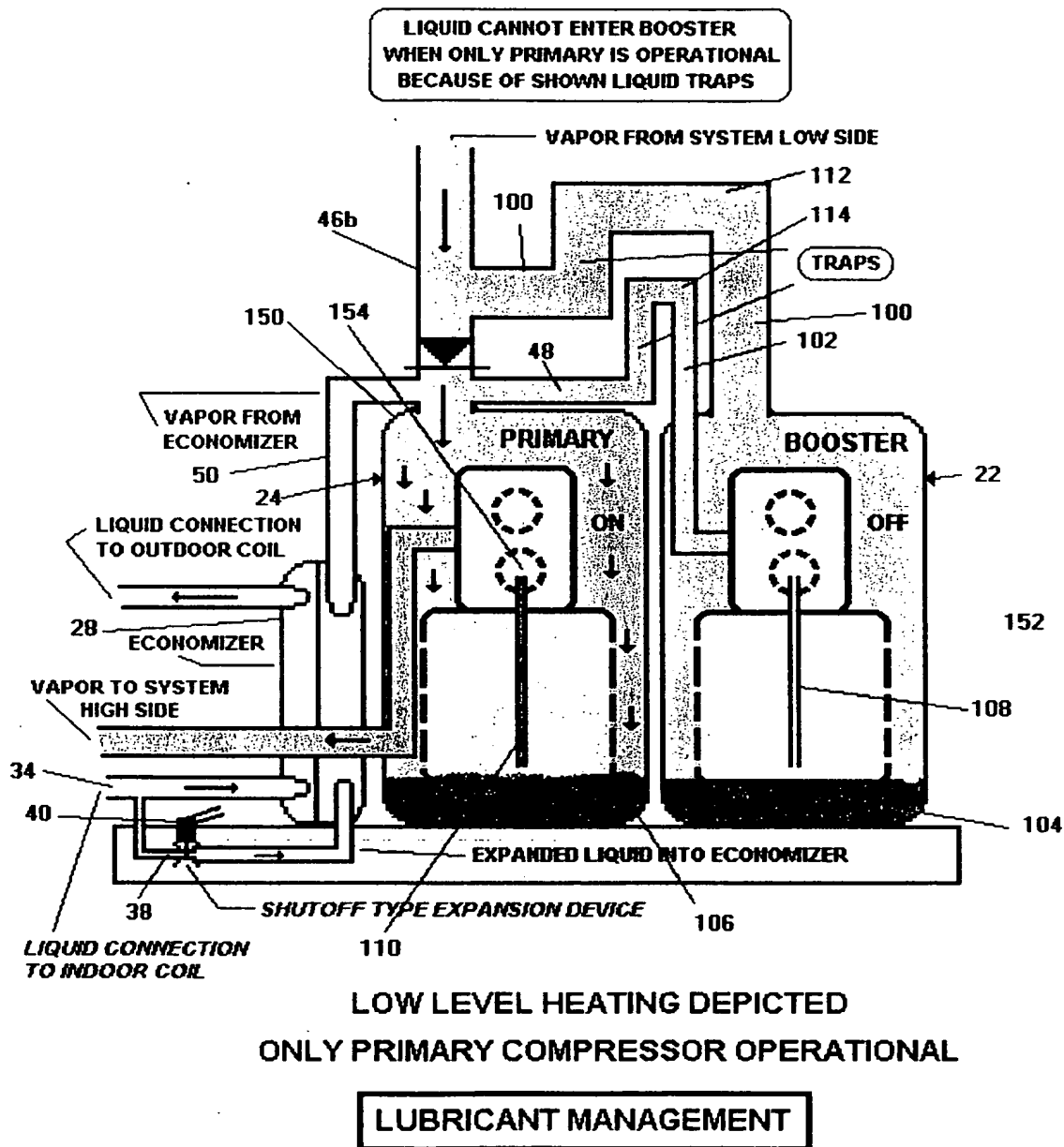
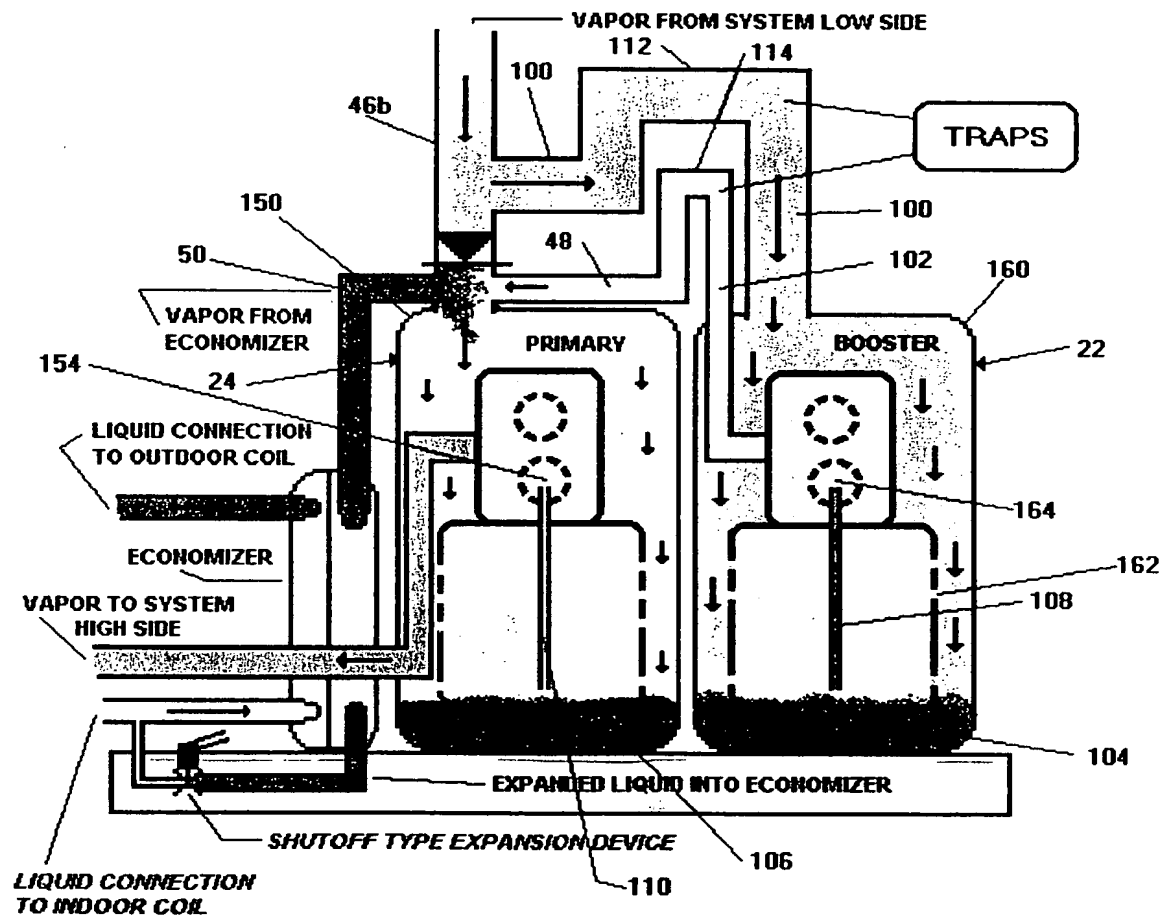


FIGURE 4

COMPRESSION MODULE FOR BOOSTED AIR SOURCE HEATING



HIGH HEATING DEPICTED
BOTH COMPRESSORS OPERATIONAL

LUBRICANT MANAGEMENT

FIGURE 5

BSHP-30 HEATING CAPACITY, BTU'S PER HOUR

BSHP-30 COOLING CAPACITY, BTU'S PER HOUR

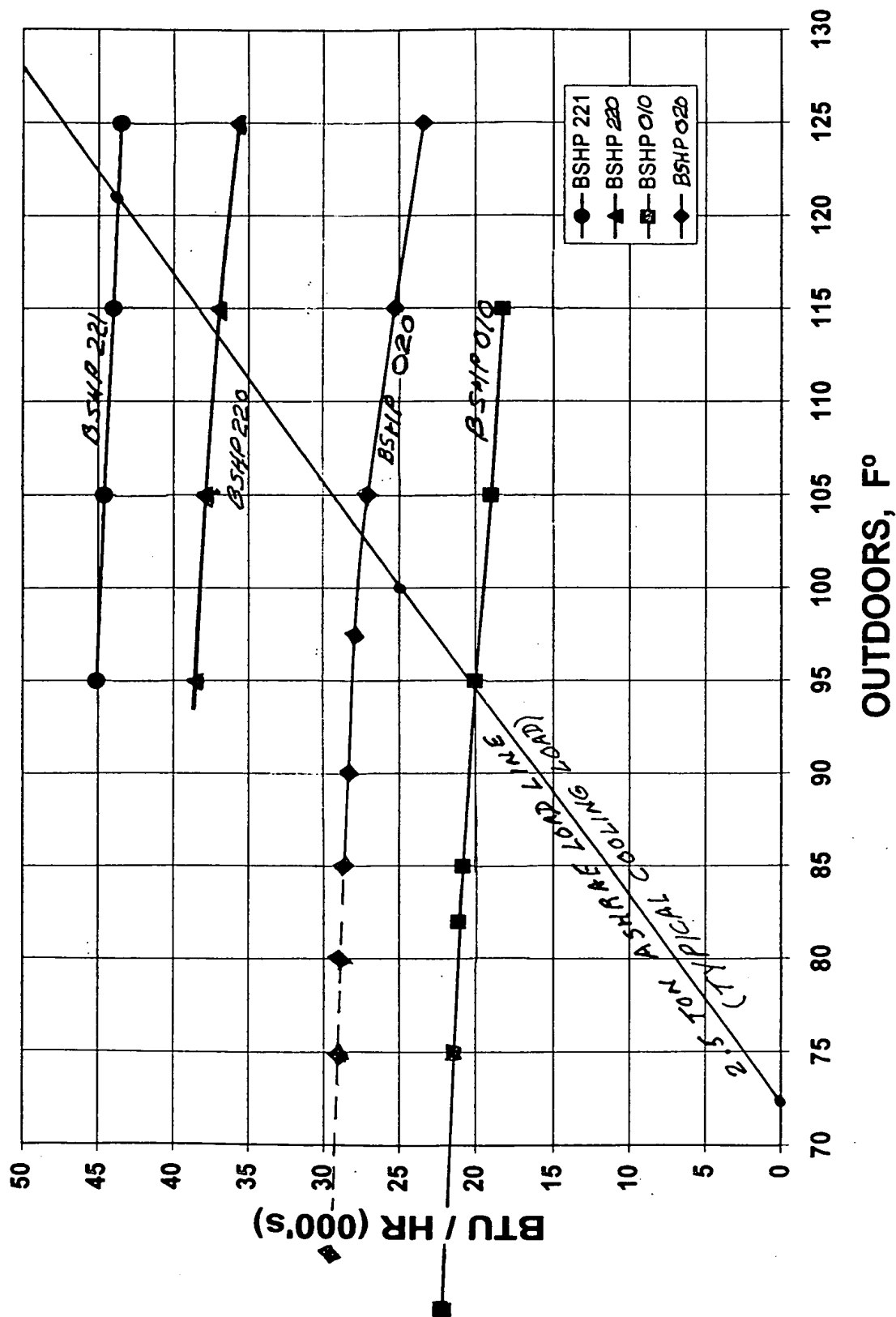


FIGURE 8

COOLING CONDITIONS

BOOSTED AIR SOURCE HEAT PUMP TYPICAL OPERATING SEQUENCE

THE CHART SHOWN BELOW SHOWS "TYPICALLY" ALLOWED CAPACITY STEP VARIOUS "TYPICAL" OUTDOOR AMBIENT TEMPERATURE RANGES.

ALL ALLOWED STEPS	ABOVE 105° TO 125°F	ABOVE 85° TO 105°F	60°F. TO 85°F
	(MANUAL)		
COMB. 2-2-1		NOT ALLOWED	NOT ALLOWED
		(MANUAL)	
COMB. 2-2-0			NOT ALLOWED
			(MANUAL)
COMB. 0-2-0			
COMB. 0-1-0	NOT ALLOWED		
OFF			

ONLY BLACKENED IN BOXES ARE ALLOWED FOR THE SHOWN TEMPERATURE RANGES.

0-1-0 MEANS 1 PRIMARY CYLINDER; 0-2-0 MEANS BOTH PRIMARY CYLINDERS; 2-2-0 MEANS 2 BOOSTER CYLS., 2 PRIMARY CYL. & NO ECONOMIZER; 2-2-1 ADDS THE ECONOMIZER.

(MANUAL) MEANS THAT THE OPERATING STEP SHOWN MUST BE CALLED MANUALLY FOR THE SHOWN OPERATING TEMPERATURE RANGE.

FIGURE 9